

What is claimed is:

1 1. A method of modifying a first user's user
2 profile for a data-class recommender, comprising the steps
3 of:

4 receiving feedback from a first user scoring
5 examples falling into various data-classes;

6 refining said first user's user profile
7 responsively to a said feedback;

8 modifying said first user's user profile
9 responsively to data from a second user's user profile;

10 said step of modifying including modifying such
11 that a frequency of recommendations of at least one data-
12 class is increased without decreasing a frequency of
13 recommendations of any other data-classes, whereby said
14 first user's user profile is expanded in scope according to
15 preferences stored in said second user's user profile.

1 2. A method as in claim 1, wherein said first
2 user's user profile includes a specialized target
3 description of favored data-classes and said step of
4 modifying includes generalizing said specialized target
5 description such that it encompasses at least one
6 specialized target description of said second user's user
7 profile.

3. A method as in claim 2, wherein said step of modifying includes substituting at least a union of specialized descriptions of said first user's user profile and said second user's user profile for said specialized description of said first user's user profile.

4. A method as in claim 1, wherein said step of generalizing includes substituting at least a union of specialized descriptions of said first user's user profile and said second user's user profile for said specialized description of said first user's user profile.

5. A method of modifying a first user's user profile for a data-class recommender, comprising the steps of:

receiving feedback from a first user scoring examples falling into various data-classes;

refining said first user's user profile responsively to a said feedback;

selecting test-data for revising said first user's user profile responsively to data from at least a second user's user profile;

requesting feedback on said test-data from said first user and modifying said first user's user profile responsively to said feedback.

1 6. A method as in claim 5, wherein said step of
2 selecting includes selecting only test-data for which
3 feedback incorporated in said first user's profile
4 increases a discriminating power of said first user's user
5 profile.

1 7. A method as in claim 7, wherein said
2 selecting includes selecting primarily test-data for which
3 said first user's user profile is insufficient for said
4 recommender to determine whether said test-data would be
5 favored or disfavored.

1 8. A method as in claim 5, wherein said step of
2 selecting includes filtering a universe of data choices
3 through a specialized description of a concept space.

1 9. A data-class recommender, comprising:
2 a learning engine;
3 a user interface device connectable to said
4 learning engine;

5 said learning engine being connectable to a data
6 source containing descriptions of data selections;

7 said learning engine being programmed to receive,
8 through said user interface, feedback from a first user
9 evaluating said data selections and to progressively
10 generate a description of data selections that are favored

11 and disfavored by said first user, thereby generating a
12 first user profile;

13 said learning engine being further programmed to
14 generate recommendations of data selections for said first
15 user responsively to said first user profile;

16 said learning engine being further programmed to
17 selectively generate recommendations of data selections for
18 said first user responsively to said first user profile and
19 at least a second user profile of a second user.

1 10. A method as in claim 9, wherein said
2 learning engine is programmed such that said first user
3 profile includes a narrow description defining target data
4 selections and a broad description defining non-target data
5 selections, the recommendations being derived from a space
6 of selections lying between said broad and narrow
7 descriptions.

1 11. A method as in claim 9, wherein said
2 learning engine is programmed such that said first user
3 profile includes at least a narrow description defining
4 target data selections and said learning engine is further
5 programmed to compare a level of narrowness in said narrow
6 description to a threshold such that said first user
7 profile results in recommendations embracing a range of

8 target data that is narrower than said threshold and said
 9 learning engine is further programmed to selectively
 10 generate recommendations of data selections for said first
 11 user responsively to said first user profile and said at
 12 least a second user profile responsively to a result of so-
 13 comparing said level with said threshold.

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